

1 July 1979

## TAKEOFF DISTANCE 2100 LBS AND 1900 LBS

### SHORT FIELD

REFER TO SHEET 1 FOR APPROPRIATE CONDITIONS AND NOTES.

| WEIGHT<br>LBS | TAKEOFF<br>SPEED<br>KIAS |             | PRESS<br>ALT<br>FT | 0°C          |                                | 10°C         |                                | 20°C         |                                | 30°C         |                                | 40°C         |                                |
|---------------|--------------------------|-------------|--------------------|--------------|--------------------------------|--------------|--------------------------------|--------------|--------------------------------|--------------|--------------------------------|--------------|--------------------------------|
|               | LIFT<br>OFF              | AT<br>50 FT |                    | GRND<br>ROLL | TOTAL<br>TO CLEAR<br>50 FT OBS | GRND<br>ROLL | TOTAL<br>TO CLEAR<br>50 FT OBS | GRND<br>ROLL | TOTAL<br>TO CLEAR<br>50 FT OBS | GRND<br>ROLL | TOTAL<br>TO CLEAR<br>50 FT OBS | GRND<br>ROLL | TOTAL<br>TO CLEAR<br>50 FT OBS |
|               |                          |             |                    |              |                                |              |                                |              |                                |              |                                |              |                                |
| 2100          | 46                       | 51          | S.L.               | 560          | 1020                           | 605          | 1095                           | 650          | 1170                           | 700          | 1250                           | 750          | 1340                           |
|               |                          |             | 1000               | 615          | 1115                           | 665          | 1195                           | 715          | 1285                           | 765          | 1375                           | 820          | 1470                           |
|               |                          |             | 2000               | 675          | 1225                           | 725          | 1315                           | 785          | 1410                           | 840          | 1515                           | 905          | 1625                           |
|               |                          |             | 3000               | 740          | 1345                           | 800          | 1445                           | 860          | 1555                           | 925          | 1670                           | 995          | 1795                           |
|               |                          |             | 4000               | 815          | 1485                           | 880          | 1600                           | 950          | 1720                           | 1020         | 1855                           | 1095         | 1995                           |
|               |                          |             | 5000               | 900          | 1645                           | 970          | 1775                           | 1045         | 1915                           | 1125         | 2065                           | 1210         | 2225                           |
|               |                          |             | 6000               | 990          | 1825                           | 1070         | 1975                           | 1155         | 2135                           | 1245         | 2310                           | 1340         | 2505                           |
|               |                          |             | 7000               | 1095         | 2040                           | 1185         | 2210                           | 1280         | 2400                           | 1380         | 2605                           | 1485         | 2835                           |
|               |                          |             | 8000               | 1215         | 2295                           | 1315         | 2495                           | 1420         | 2720                           | 1530         | 2965                           | 1650         | 3245                           |
| 1900          | 43                       | 48          | S.L.               | 450          | 820                            | 480          | 880                            | 520          | 940                            | 555          | 1000                           | 595          | 1070                           |
|               |                          |             | 1000               | 490          | 895                            | 525          | 960                            | 565          | 1025                           | 610          | 1095                           | 655          | 1170                           |
|               |                          |             | 2000               | 535          | 980                            | 580          | 1050                           | 620          | 1120                           | 665          | 1200                           | 715          | 1280                           |
|               |                          |             | 3000               | 590          | 1070                           | 635          | 1150                           | 680          | 1230                           | 735          | 1315                           | 785          | 1410                           |
|               |                          |             | 4000               | 645          | 1175                           | 695          | 1260                           | 750          | 1355                           | 805          | 1450                           | 865          | 1555                           |
|               |                          |             | 5000               | 710          | 1295                           | 765          | 1390                           | 825          | 1495                           | 890          | 1605                           | 955          | 1725                           |
|               |                          |             | 6000               | 785          | 1430                           | 845          | 1540                           | 910          | 1655                           | 980          | 1785                           | 1055         | 1920                           |
|               |                          |             | 7000               | 865          | 1585                           | 935          | 1710                           | 1005         | 1845                           | 1085         | 1990                           | 1165         | 2145                           |
|               |                          |             | 8000               | 955          | 1765                           | 1030         | 1905                           | 1115         | 2060                           | 1200         | 2230                           | 1290         | 2410                           |

Figure 5-4. Takeoff Distance (Sheet 2 of 2)

CESSNA  
MODEL 172N

SECTION 5  
PERFORMANCE

SECTION 5  
PERFORMANCE

CESSNA  
MODEL 172N

## MAXIMUM RATE OF CLIMB

CONDITIONS:

Flaps Up  
Full Throttle

NOTE:

Mixture leaned above 3000 feet for maximum RPM.

| WEIGHT<br>LBS | PRESS<br>ALT<br>FT | CLIMB<br>SPEED<br>KIAS | RATE OF CLIMB - FPM |     |      |      |
|---------------|--------------------|------------------------|---------------------|-----|------|------|
|               |                    |                        | -20°C               | 0°C | 20°C | 40°C |
| 2300          | S.L.               | 73                     | 875                 | 815 | 755  | 695  |
|               | 2000               | 72                     | 765                 | 705 | 650  | 590  |
|               | 4000               | 71                     | 655                 | 600 | 545  | 485  |
|               | 6000               | 70                     | 545                 | 495 | 440  | 385  |
|               | 8000               | 69                     | 440                 | 390 | 335  | 280  |
|               | 10,000             | 68                     | 335                 | 285 | 230  | ---  |
|               | 12,000             | 67                     | 230                 | 180 | ---  | ---  |

Figure 5-5. Maximum Rate of Climb